

PTO-1449 REPRODUCED  INFORMATION DISCLOSURE CITATION FOR AN APPLICATION June 15, 2004 (Use additional sheets if necessary)	ATTORNEY DOCKET NO. 1407.1037-009	APPLICATION NO. 10/734,652	
	FIRST NAMED INVENTOR Anuj Bellare		FILING DATE December 12, 2003
	EXAMINER Unknown	CONFIRMATION NO. 8950	GROUP 1714

U.S. PATENT DOCUMENTS				
EXAM- INER INT- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
TY	AA	4,500,658	02-19-1985	Fox
TY	AB	4,791,150	12-13-1988	Braden <i>et al.</i>
TY	AC	4,373,217	02-15-1983	Draenert
TY	AD	5,574,075	11-12-1996	Draenert
TY	AE	5,334,356	08-02-1994	Baldwin <i>et al.</i>
TY	AF	4,473,665	09-25-1984	Martini-Vvedensky <i>et al.</i>
TY	AG	4,588,583	05-13-1986	Pietsch <i>et al.</i>
TY	AH	5,328,262	07-12-1994	Lidgren <i>et al.</i>
TY	AI	4,735,625	04-05-1988	Davidson
TY	AJ	5,795,922	08-18-1998	Demian <i>et al.</i>
TY	AK	5,055,497	10-08-1991	Okada <i>et al.</i>
TY	AA2	6,020,396	08-01-2000	Jacobs
TY	AB2	6,013,591	01-11-2000	Ying <i>et al.</i>
TY	AC2	4,396,476	08-02-1983	Roemer <i>et al.</i>
TY	AD2	4,239,113	12-16-1980	Gross <i>et al.</i>
TY	AE2	4,490,497	12-25-1984	Evrard <i>et al.</i>
TY	AF2	4,617,327	10-14-1986	Podsun
TY	AG2	5,030,474	07-09-1991	Saita <i>et al.</i>
TY	AH2	5,797,873	08-25-1998	Franz <i>et al.</i>
TY	AI2	5,847,046	12-08-1998	Jiang <i>et al.</i>
TY	AJ2	6,080,801	06-27-2000	Draenert <i>et al.</i>
TY	AK2	6,197,410 B1	03-06-2001	Vallittu <i>et al.</i>
TY	AA3	6,203,844 B1	03-20-2001	Park
TY	AB3	3,156,666	11-10-1964	Pruett
TY	AC3	3,471,439	10-07-1969	Bixler, <i>et al.</i>
TY	AD3	4,124,562	11-07-1978	Yui, <i>et al.</i>

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FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
TY	AL	DE 42 29 947 A1	9 Aug. 1992	Germany	X	
TY	AM	EP 0 853 929 A2	22 Jul. 1998	EPO		
TY	AN	EP 0 875 456 A1	04 Nov. 1998	EPO		
TY	AQ	EP 0 768 067 A2	16 Apr. 1997	EPO		
TY	AP	WO 96/07472 A1	14 Mar. 1996	WIPO		
TY	AQ	EP 0 796 653 A2	24 Sept. 1997	EPO		
TY	AL2	WO 96/40424	19 Dec. 1996	WIPO		
TY	AM2	WO 97/18031	22 May 1997	WIPO		
TY	AN2	WO 97/21485	19 June 1997	WIPO		
TY	AQ2	EP 0 872 223 A1	21 Oct. 1998	EPO		
TY	AP2	WO 96/11714	25 Apr. 1996	WIPO		
TY	AQ2	GB 1 532 318	22 Nov. 1976	United Kingdom		
TY	AL3	EP 1 293 531 A1	19 Mar. 2003	EPO		
TY	AM3	EP 1 366 774 A1 ✓	25 Apr. 2003	EPO		
TY	AN3	EP 0 041 614 A1 ✓	16 Dec. 1981	EPO		
TY	AQ3	EP 0 089 782 A1 ✓	28 Sept. 1983	EPO		
TY	AP3	EP 1 095 984 A1 ✓	02 May 2001	EPO		
TY	AQ3	1 278 413 ✓	21 June 1972	United Kingdom		
TY	AL4	WO 93/25245 ✓	23 Dec. 1993	WIPO		

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TY	AR	Souheng Wu, E., "A Generalized Criterion for Rubber Toughening: The Critical Matrix Ligament Thickness," <i>J. Appl. Polymer Sci.</i> , 35: 549-561 (1988).
TY	AS	Lewis, G., "Properties of Acrylic Bone Cement: State of the Art Review," <i>J. Biomed. Mater. Res.</i> , 38(2): 155-182 (1997).
TY	AT	Molino, L. N., and Topoleski, L.D.T., "Effect of BaSO <sub>4</sub> on the Fatigue Crack Propagation Rate of PMMA Bone Cement," <i>J. Biomed. Mater. Res.</i> , 31: 131-137 (1996).
TY	AU	Jacoby, M., "Photonic Crystals: Whole Lotta Holes Prepared by New Procedures, Materials With Arrays of Large Holes May Hasten Development of Optical-based Technologies," <i>C&amp;EN</i> , 11-23 38-43 (1998).
TY	AV	Lewis, G., "Research Directions in Acrylic Bone Cement Studies," <i>BMES Bul.</i> , 20(1): 4-20 (1996).
TY	AY	Wang, J. S., et al., "Porosity of Bone Cement Reduced by Mixing and Collecting Under Vacuum," <i>Acta Orthop. Scand.</i> , 64(2): 143-146 (1993).
TY	AX	Wixson, R., et al., "Vacuum Mixing of Acrylic Bone Cement," <i>J. Arthroplasty</i> , 2(2): 141-149 (1987).
TY	AY	Saha, S. and Pal, S., "Mechanical Properties of Bone Cement: A Review," <i>J. Biomed. Mater. Res.</i> , 18: 435-462 (1984).
TY	AZ	Pascual, B., et al., "New Aspects of the Effect of Size and Size Distribution on the Setting Parameters and Mechanical Properties of Acrylic Bone Cements," <i>Biomaterials</i> , 17(5): 509-516 (1996).
TY	AR2	James, S. P., et al., "Extensive Porosity at the Cement-Femoral Prosthesis Interface: A Preliminary Study," <i>J. Biomed. Mater. Res.</i> , 27: 71-78 (1993).
TY	AS2	Fumich, R.M. and Gibbons, D. F., "Rate of Mixing and the Strength of Methylmethacrylate Bone Cements," <i>Orthopaedic Rev.</i> , 8(9): 41-44 (1979).
TY	AT2	Bishop, N.E., et al., "Porosity Reduction in Bone Cement at the Cement-Stem Interface," <i>J. Bone Surg.</i> , 78-B(3): 359-356 (1996).
TY	AU2	Topoleski, L.D., et al., "Microstructural Pathway of Fracture in Poly(methyl methacrylate) Bone Cement," <i>Biomaterials</i> , 14(15): 1165-1172 (1993).

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TY	AV2	Mapleston, P., "Broad Use Spectrum Seen for Microcellular Injection technique," <i>Modern Plastics</i> December(1998). page 31
TY	AW2	Schreurs, B.W., <i>et al</i> "Effects of Preparation Techniques on the Porosity of Acrylic Cements," <i>Acta Orthop Scand</i> 59(4):403-409 (1988).
TY	AX2	Müller-Wille, <i>et al.</i> , "Integrated System for Preparation of Bone Cement and Effects on Cement Quality and Environment," <i>J. Biomed. Mat. Res.</i> , 38(2):135-42 (1997) Summer.
TY	AY2	Knoell, A., <i>et al.</i> , abstract, Ei Compendex®, "Graphite Fiber Reinforced Bone Cement," <i>Ann. Biomed. Eng.</i> , 3(2): 225-229 (1975).
TY	AZ2	Kindt-Larsen, Ture, <i>et al.</i> "Innovations in Acrylic Bone Cement and Application Equipment," <i>J. App. Biomater.</i> , 6:75-83 (1995).
TY	AR3	Fritsch, E. W., "Static and Fatigue Properties of Two New Low-Viscosity PMMA Bone Cements Improved by Vacuum Mixing," <i>J. Biomed. Mat. Res.</i> , 31:451-456 (1996).
TY	AS3	Connelly, T. J., <i>et al.</i> , "The Role of Porosity in the Shrinkage of Acrylic Bone Cement," <i>Trans 13<sup>th</sup> Mtg. Soc. Biomat</i> , June 2-6, New York, NY 1987.
TY	AT3	Haas, S. S., <i>et al.</i> , "A Characterization of Polymethylmethacrylate Bone Cement," <i>J. Bone Joint Surg.</i> , 57-A:380-391 (1975).
TY	AU3	Sabokbar, A., <i>et al.</i> , abstract Medline®, "Radio-Opaque Agents in Bone Cement Increase Bone Resorption," <i>J. Bone Joint Surg. Br.</i> , 79(1):129-134 (1997).
TY	AV3	Lazarus, M.D., <i>et al.</i> , abstract Medline®, "Comparison of the Inflammatory Response to Particulate Polymethylmethacrylate Debris With and Without Barium Sulfate," <i>J. Orthop Res.</i> , U.S., 12(4):532-541 (1994).
TY	AW3	Topoleski, L.D., <i>et al.</i> , abstract Medline®, "A Fractographic Analysis of <i>in vivo</i> Poly(methyl Methacrylate) Bone Cement Failure Mechanisms," <i>J. Biomed Mater Res.</i> , 24(2):135-154 (1990).
TY	AX3	Nakahara, M., abstract Medline®, "An Objective Examination for Painful Hip After Total Hip Arthroplasty," <i>Acta Orthop. Scand.</i> 53(4):591-600 (1982).

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TY	AY3	Rudigier, J., <i>et al.</i> , abstract Medline®, "Release and Diffusion of Methylmethacrylic Monomers After the Implantation of Self Curing Bone Cements," <i>Unfallchirurgie</i> , 7(3):132-137 (1981).
TY	AZ3	Beaumont, P.W., abstract Medline®, "Fracture Processes in Acrylic Bone Cement Containing Barium Sulphate Dispersions," <i>J. Biomed Eng.</i> , 1(3): 147-152 (1979).
TY	AR4	Rudigier, J., <i>et al.</i> , abstract Medline®, "Biological Effect of Bariumsulfate as Contrast Material in Bone Cement," 86(3):279-290 (1976).
TY	AS4	Friis, E.A., <i>et al.</i> , abstract Ei Compendex®, "Fracture Toughness of Surface-Treated Carbon Fiber Reinforced Composite Bone Cement," <i>Transactions of the Annual Meeting of the Society For Biomaterials</i> , St. Louis Park, MN, USA, Pg. 913. (1996)
TY	AT4	Lerouge, S., <i>et al.</i> , abstract Medline®, "Characterization of <i>in vivo</i> Wear Debris From Ceramic-Ceramic Total Hip Arthroplasties," <i>J. Biomed. Mater Res.</i> , 32(4):627-633 (1996).
TY	AU4	Yoshida, K., and Greener, E.H., abstract Medline®, "Effects of Coupling Agents on Mechanical Properties of Metal Oxide-Polymethacrylate Composites," <i>J. Dent.</i> , 22(1):57-62 (1994).
TY	AV4	Hopf, C., <i>et al.</i> , abstract Medline®, "Comparative Studies on the Radioactivity of Bone Cements Containing X-Ray Contrast Media and of the Contrast Media," <i>Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr.</i> , 152(5):601-200 (1990).
TY	AW4	Streicher, R.M., <i>et al.</i> , abstract Medline®, "New Surface Modification for Ti-6Al-7Nb Alloy: Oxygen Diffusion Hardening (ODH)," <i>Biomaterials</i> , 12(2):125-129 (1991).
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TY	AY4	Gross, U., and Strunz, V., abstract Medline®, "The Interface of Various Glasses and Glass Ceramics With a Bony Implantation Bed," <i>J. Biomed. Mater Res.</i> , 19(3):251-271 (1985).
TY	AZ4	Bhambri, S.K., and Gilbertson, L.N., abstract Medline®, "Micromechanisms of Fatigue Crack Initiation and Propagation in Bone Cements," <i>J. Biomed. Mater Res.</i> , 29(2):233-237 (1995).
TY	AR5	Owen, A.B., and Beaumont, P.W., abstract Medline®, "Fracture Behaviour of Commercial Surgical Acrylic Bone Cements," <i>J. Biomed Eng.</i> , 1(4):277-280 (1979).

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TY	AT5	Holland, B.T., et al., "Synthesis of Macroporous Minerals With Highly Ordered Three-dimensional Arrays of Spheroidal Voids," <i>Science</i> , 81:538-540.
TY	AU5	Gilbert, J.L., and Ney, D.E., abstract, RAPRA Rubber & Plastics, "Self-Reinforced Composite PMMA: Static and Fatigue Properties," <i>Biomaterials</i> , 16(14):1043-1055 (1995).
TY	AV5	Pourdeyhimi, B., et al., abstract, Ei Compendex®, "Comparison of Mechanical Properties of Discontinuous Kevlar 29 Fibre Reinforced Bone and Dental Cements," <i>J. Mat. Sci.</i> , 21(12):4468-4474 (1986).
TY	AW5	James, S.P., et al., "A Fractographic Investigation of PMMA Bone Cement Focusing on the Relationship Between Porosity Reduction and Increased Fatigue Life," <i>J. Biomed. Mater. Res.</i> , 26:651-652 (1992).
TY	AX5	Jasty, M., et al., "The Initiation of Failure in Cemented Femoral Components of Hip Arthroplasties," <i>J. Bone Joint Surg.</i> , 73(B):551 (1991).
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TY	AZ5	Burke, D.W., et al., "Centrifugation as a Method of Improving Tensile and Fatigue Properties of Acrylic Bone Cement," <i>J. Bone Joint Surg.</i> , 66(A):1265-1273 (1984).
TY	AR6	Davies, J.P., et al., "The Effect of Centrifuging Bone Cement," <i>J. Bone Joint Surg.</i> , 71(B):39-42 (1989).
TY	AS6	Davies, J.P., et al., "Comparison of the Mechanical Properties of Simplex P, Zimmer Regular, and LVC Bone Cements," <i>J. Biomed. Mater. Res.</i> , 21:719-730 (1987).
TY	AT6	Topoleski, L.D., et al., "The Effects of Centrifugation and Titanium Fiber Reinforcement on Fatigue Failure Mechanisms in Poly(methyl methacrylate) Bone Cement," <i>J. Biomed. Mater. Res.</i> , 29:299-307 (1995).
TY	AU6	Lewis, G, et al., "Effect of Mixing Method on Selected Properties of Acrylic Bone Cement," <i>J. Biomed. Mater. Res.</i> , 38:221-227 (1997).

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TY	AV6	Trieu, H.H., et al., "A Comparative Study of Bone Cement Preparation Using a New Centrifugation Mixing Technique," <i>The 20<sup>th</sup> Annual Meeting of the Society for Biomaterials</i> , April 5-9, Boston, Massachusetts (1994).
TY	AW6	Treharne, R.W., and Brown, N., abstract Medline®, "Factors Influencing the Creep Behavior of Poly(Methyl Methacrylate) Cements," <i>J. Biomed Mater. Res.</i> , 9(4): 81-88 (1975).
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TY	AY6	Pedley, R.B., et al., abstract Medline®, "Identification of Acrylic Cement Particles in Tissues," <i>Ann. Biomed. Eng.</i> 7(3-4):319-328 (1979).
TY	AZ6	Demian, et al., "Regulatory Perspective on Characterization and Testing of Orthopedic Bone Cement," <i>Biomaterials</i> , 19:1607-1618 (1998).
TY	AR7	Wu, S., "A Generalized Criterion for Rubber Toughening: The Critical Matrix Ligament Thickness," <i>J. Appl. Polym. Sci.</i> , 35:549-561 (1988).
TY	AS7	Charnley, J., "Anchorage Of The Femoral Head Prosthesis To The Shaft of The Femur," <i>The J. of Bone and Joint Surgery</i> , 42-B:28-30 (1960)
TY	AT7	Friis, E. A., et al., "Fracture Toughness Of Vacuum Mixed PMMA Bone Cement," <i>Transactions, Nineteenth Annual Meeting of the Society For Biomaterials, April 28 - May 2, 1993</i> , 16:301 (1993)
TY	AU7	Skinner, H. B., et al., "Density Gradients In Bone Cement After Centrifugation," <i>Transactions, 31st Annual Meeting Orthopaedic Research Society, Las Vegas, Nevada, January 21-24, 1985</i> , 10:243 (1985)
TY	AV7	Gharpuray, V. M., et al., "Cracks Emanating From Circular Voids or Elastic Inclusions in PMMA Near a Bone-Implant Interface," <i>Transactions Of The ASME, J. Of Biomech. Engineer.</i> , 112(1):22-28 (1990)
TY	AW7	Kurtz, S. M., et al., "Advances in the Processing, Sterilization, and crosslinking of ultra-high molecular weight polyethylene for total joint arthroplasty," <i>Biomaterials</i> , 20(18):1659-1688 (1999)
TY	AX7	Vila, M. M., et al., "Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified With Acrylonitrile-Butadiene-Styrene Particles: I. Fracture Toughness," <i>J. Of Biomed. Materials Research</i> , 48:121-127 (1999)

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TY	AY7	Vila, M. M., <i>et al.</i> , "Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified With Acrylonitrile-Butadiene-Styrene Particles: Part II. Fatigue Crack Propagation," <i>Of Biomed. Materials Research</i> , 48:128-134 (1999)
TY	AZ7	Murakami, A., <i>et al.</i> , "Rubber-modified Bone Cement," <i>J. Of Materials Science</i> , 23(6):2029-2036 (1988)
TY	AR8	Puckett, A. D., <i>et al.</i> , "Improved Orthopaedic Bone Cement Formulations Based On Rubber Toughening," <i>Critical Reviews In Biomed. Engineer.</i> , 28(3&4): 457-461 (2000)
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TY	AU8	Kim, H. Y., <i>et al.</i> , "Improvement Of Fatigue Properties of Poly(methyl methacrylate) Bone Cement By Means Of Plasma Surface Treatment Of Fillers," <i>J. Of Biomed. Materials Research</i> , 48(2):135-142 (1999)

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